

ZACKARY SCALYER

(717) 598-8390 / zes5027@psu.edu

SUMMARY

Seeking employment/internship in data analysis or related field while completing the Master's in Applied Statistics Program at Villanova University. For examples of academic research please refer to my public repository <https://github.com/zack0179/ZackaryScalyer>.

EDUCATION

The Pennsylvania State University, Berks Campus

Expected: May 2018

- Bachelor of Science in Kinesiology, Exercise Science Option
- Cumulative GPA: 3.72

Villanova University Master's in Applied Statistics

Accepted: Fall 2018

ACADEMIC AWARDS

The Penn State Berks Excellence in Statistics Award

April 2018

Franco Undergraduate Research Award (\$1,500)

January 2017

Science Peer Tutor Award: Kinesiology

June 2017

Outstanding Science Internship/Co-op Student Award

June 2017

Science Peer Tutor Award: Mathematics

June 2016

ACADEMIC RESEARCH EXPERIENCE

Statistical Program Competencies

August 2016 to Present

SPSS, R, Python, MATLAB, and Minitab

- Course work in statistics for SPSS and R
 - STAT 401 - Experimental Methods
 - STAT 200 - Elementary Statistics
 - KINES 260 - Research Skills in Kinesiology
- PSU Learning Center tutor for SPSS and R
- Data cleaning and statistical modeling with R
- Data integration, processing, analyzation, and visualization with Python and MATLAB
- Inferential statistics and data visualization with Minitab, SPSS, MATLAB, and R

American Society of Biomechanics Regional Conference

April 2018

- Student Chair

Physics Department Independent Studies

August 2017 to Present

Faculty Adviser: Dr. Alexei Prokudin

- *Transverse-momentum-dependent Multiplicities of Charged Hadrons*

PSU Berks Biomechanics Research Internship

June 2016 to Present

Faculty adviser Dr. Benjamin W. Infantolino, & Dr. Allison R. Altman-Singles

- *Optimal Fascicle Length Changes Based On Submaximal Force Or Activation*
- Ultrasound imaging, EMG, load cell data collection and data processing
- Vicon Nexus II Motion Analysis System, Bertec Force-Plate Gate Analysis

PSU Berks Funded Engineering Research

May to August 2017

Faculty Adviser: Dr. Joseph M. Mahoney

- *Design, Calibration and Validation of an Inexpensive Balance Board for Quiet Stance Testing*
- *Validation of Simple Automated Step Counting Methods During Treadmill Walking*

PSU Berks Chemistry Research Internship

June to August 2016

Faculty Adviser: Dr. Katie E. Amaral

- *Organic Chemistry Predicting Outcomes*

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ACADEMIC TEACHING EXPERIENCE

National Biomechanics Day **Spring 2018**

- Musculoskeletal Biomechanics presentation

Peer Academic Leader: The Neurobiology of Motor Control **Spring 2017**

Faculty adviser Dr. Benjamin W. Infantolino

- Conducted weekly review sessions helping students understand course material

PSU Berks Math, Science, and Statistics tutor **January 2016 to May 2017**

- Stat 100 Student Mentor: Presented introduction to probability

National Science Foundation (NSF) Engineering Ahead Program **July 2016, July 2017**

Faculty Adviser: Dr. Ryan S. Hassler

- Program assistant, student mentor and math tutor

STEM Conference Student Instructor **March 2016, March 2017**

Faculty Adviser: Dr. Ryan S. Hassler & Dr. Benjamin W. Infantolino

- Real-World Data Analysis Using R
- Ultrasound and muscle anatomy

PRESENTED RESEARCH

41st American Society of Biomechanics Annual Conference **August 2017**

- Poster presentation: Optimal Fascicle Length Changes Based On Submaximal Force Or Activation

18th Annual Undergraduate Research & Creativity Conference **April 2017**

- Poster presentation: Organic Chemistry Predicting Outcomes

American Chemical Society (ACS) Middle Atlantic Regional Meeting (MARM) **June 2017**

- Poster presentation: Organic Chemistry Predicting Outcomes

Biennial Conference on Chemistry Education (BCCE) **June 2016**

- Podium presentation by Dr. Katie E. Amaral: Linear and Generalized Linear Modeling of Organic Chemistry II Grade

MILITARY AWARDS & ACADEMICS

US Marine Corps Certificate of Commendation **July 2010**

- Organized, updated, and developed a referencing system for the hazardous materials accumulation point which resulted in 100 percent accountability of all hazmat aboard Camp Gonsalves, Okinawa.
- Wrote nine safety programs which resulted in zero discrepancies on both fire inspections and the Annual Installation Safety Office Inspection of Work and Living quarters.

Corporals Leadership Course **August 2012**

- 46 hours in-class instruction. Topics included: public speaking, mentoring, leadership

Marine Corps Martial Art Black Belt Instructor **August 2012**

- 158 hours of instructing, certified 39 students

PROFESSIONAL AFFILIATIONS

2015 - Present

- American Society of Biomechanics (ASB)
- National Strength and Conditioning Association (NSCA)
- American College of Sports Medicine (ACSM)